

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Simon F. Williams, David P. Martin, and Frank A. Skraly

Serial No.: Divisional of 09/535,146

Art Unit: Not Yet Assigned

Filed: February 26, 2002

Examiner: Not Yet Assigned

For: *MEDICAL DEVICES AND APPLICATIONS OF POLYHYDROXYALKANOATE  
POLYMERS*

Assistant Commissioner for Patents  
Washington, D.C. 20231

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §1.56 and 37 C.F.R. §1.97, Applicants submit an Information Disclosure Statement, including eleven (11) pages of Form PTO-1449. The documents cited below were cited by or submitted to the Patent Office in Application Serial No. 09/535,146, filed March 24, 2000, to which the present application claims priority. Pursuant to 37 C.F.R. §1.98(d), Applicants are not enclosing copies of these publications. Copies will be provided upon request, however.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) prior to a first Office Action on the merits. It is believed that no fee is required with this submission. However, should a fee be required, the Commissioner is hereby authorized to charge any required fees to Deposit Account No. 50-1868.



# 1 1/2

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<u>Number</u>	<u>Issue Date</u>	<u>Patentee</u>	<u>Class/Subclass</u>
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### Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicants invite the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicants are of the opinion that their claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,

  
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Patrea L. Pabst  
Reg. No. 31,284

Dated: February 26, 2002

HOLLAND & KNIGHT LLP  
One Atlantic Center  
1201 West Peachtree Street, N.E.  
Suite 2000  
Atlanta, Georgia 30309-3400  
404-817-8500  
FAX 404-817-0470  
www.hklaw.com

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		Application Number	Divisional of 09/535,146		
		Filing Date	February 26, 2002		
		First Named Inventor	Simon F. Williams		
		Group Art Unit			
Examiner Name					
Sheet	1	of	11	Attorney Docket Number	MBX 035 DIV

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		4,792,336		Hlavacek, et al.	12-20-1988	
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		5,646,217		Hammond	07-08-1997	
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		5,834,582		Sinclair et al.	11-10-1998	

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		AGOSTINI, et al., "Synthesis and Characterization of Poly-β-Hydroxybutyrate. I. Synthesis of Crystalline DL Poly-β-Hydroxybutyrate from DL- β-Butyrolactone," <i>Polym. Sci., Part A-1</i> 9:2775-87 (1971).	
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		DE GROOT, "Meniscal tissue regeneration in porous 50/50 copoly(L-lactide/epsilon-caprolactone) implants," <i>Biomaterials</i> 18(8):613-22 (1997).	

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		First Named Inventor	Simon F. Williams		
		Group Art Unit			
		Examiner Name			
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		DOMB, et al., <u>Handbook of Biodegradable Polymers</u> (Harwood Academic Publishers:Amsterdam, The Netherlands, 1997).	
		DUBOIS, et al., "Macromolecular Engineering of Polylactones and Polylactides. 12. Study of the Depolymerization Reactions of Poly (ε-caprolactone) with Functional Aluminum Alkoxide End Groups," <i>Macromolecules</i> 26:4407-12 (1993).	
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		HOCKING & MARCHESSAULT, "Syndiotactic poly[(R,S)-β-hydroxybutyrate] isolated from methyaluminoxane-catalyzed polymerization," <i>Polym. Bull.</i> 30:163-70 (1993).	
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		KOOSHA, et al., "Polyhydroxybutyrate as a drug carrier," <i>Crit. Rev. Ther. Drug Carrier Syst.</i> 6(2):117-30 (1989).	
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		MCMILLIN, et al., "Elastomers for Biomedical Applications," <i>Rubber Chemistry and Technology</i> 67:417-46 (1994).	
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		POUTON & AKHTAR, "Biosynthetic polyhydroxyalkanoates and their potential in drug delivery," <i>Adv. Drug Delivery Rev.</i> 18:133-62 (1996).	
		RIVARD, et al., "Fibroblast seeding and culture in biodegradable porous substrates," <i>J. Appl. Biomater.</i> 6(1):65-68 (1995).	
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		Application Number	Divisional of 09/535,146
		Filing Date	February 26, 2002
		First Named Inventor	Simon F. Williams
		Group Art Unit	
		Examiner Name	
Sheet 11 of 11	Attorney Docket Number	MBX 035 DIV	

OTHER ART – NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		WILLIAMS & PEOPLES, "Making plastics green," <i>Chem. Br.</i> 33:29-32 (1997).	
		WILLIAMS & PEOPLES, "Biodegradable plastics from plants," <i>CHEMTECH</i> 26:38-44 (1996).	
		XIE, et al., "Ring-opening Polymerization of $\beta$ -Butyrolactone by Thermophilic Lipases," <i>Macromolecules</i> 30:6997-98 (1997).	
		YAMADA, et al., "Development of a dural substitute from synthetic bioabsorbable polymers," <i>J. Neurosurg.</i> 86(6):1012-17 (1997).	
		ZUND, et al., "The in vitro construction of a tissue engineered bioprosthetic heart valve," <i>Eur. J. Cardiothorac. Surg.</i> 11(3):493-97 (1997).	

Examiner's Signature		Date Considered	
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